Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PERIODIC TRENDS #1**

I II III IV V VI VII VIII

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1. The following elements belong together in families JFU – RHIG – QKZ – COL – WAP – TMB – SNV – XDYE
2. I and D represent an entire period
3. R has one electron in its outermost shell
4. K is a halogen with the smallest radius
5. J has 14 protons
6. U is the least metallic element in its family
7. The electrons of A end 2s22p3
8. X is more closely related to D than the other elements in its family are
9. A neutral atom of O has 8 electrons
10. G has the largest radius in its family
11. V is the most metallic alkaline earth
12. N has the highest ionization energy in its family
13. H has 4 neutrons
14. Q has the lowest electronegativity in its family
15. Y is the most metallic member of its family
16. W is more metallic that P
17. M has the largest atomic mass in its family
18. C is a liquid and L is a solid
19. The electrons of B are distributed over three energy levels

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PERIODIC TRENDS #2**

I II III IV V VI VII VIII

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1. The following elements are grouped together as families

UON—PRV—KMEA—DBL—YWG—XCT—QHJS—FIZ

2. C has 7 protons

3. P is an alkaline earth metal

4. L is a halogen

5. K and S make up an entire period

6. S is the least metallic element in the entire table

7. E is the most metallic element in the entire table

8. The most common oxidation state for W is 3+

9. G has the lowest ionization energy in its family

10. T is more metallic that X

11. D has the largest radius in its family

12. Y has the smallest atomic mass in its family

13. The electrons of A are distributed over 2 main energy levels

14. U commonly forms 2- ions

15. N has the highest ionization energy in its family

16. Z has 7 neutrons

17. F is less metallic than I

18. O is a liquid and U is a solid

19. V has the largest radius in its family

20. R is more closely related to P than to V

21. The electron configuration of H has a filled third energy level

22. Q is the most metallic member of its family

23. B is a gas and L is a liquid